R/Rstudio installation and overview

Install R

- Go to https://ftp.acc.umu.se/mirror/CRAN/
- Download R specific to your operating system.
- Install the program.



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The Comprehensive R Archive Network

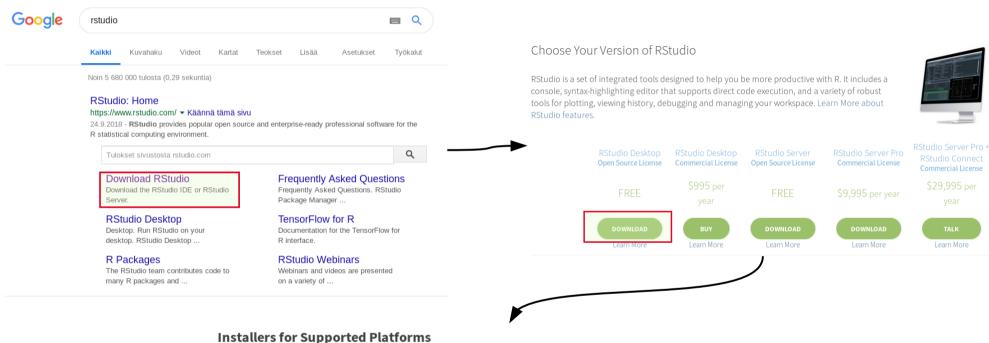
Download and Install R

Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:

- Download R for Linux
- Download R for (Mac) OS X
- Download R for Windows

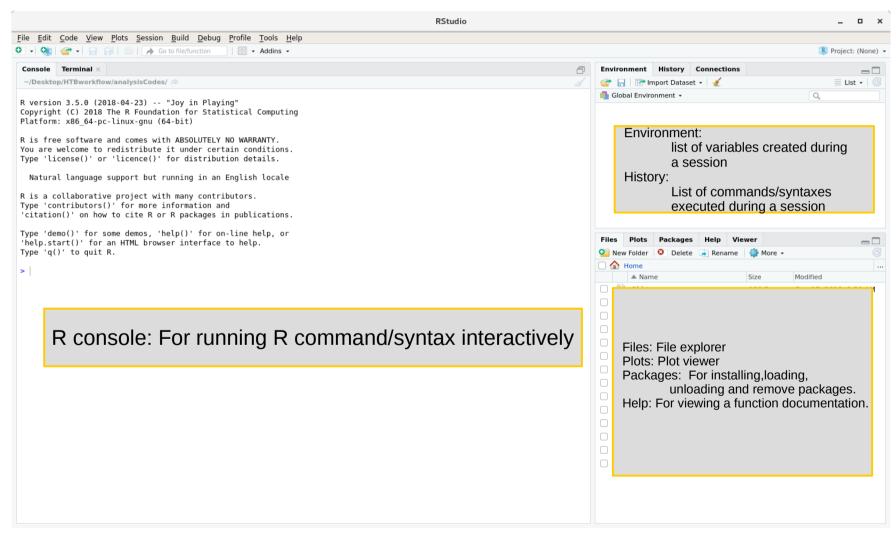
R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

Install Rstudio



Installers	Size	Date	MD5
RStudio 1.1.463 - Windows Vista/7/8/10	85.8 MB	2018-10-29	58b3d796d8cf96fb8580c62f46ab64d4
RStudio 1.1.463 - Mac OS X 10.6+ (64-bit)	74.5 MB	2018-10-29	a79032ba4d7daaa86a8da01948278d94
RStudio 1.1.463 - Ubuntu 12.04-15.10/Debian 8 (32-bit)	89.3 MB	2018-10-29	8a6755fa9fae2bafce289df3358aaf63
RStudio 1.1.463 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	97.4 MB	2018-10-29	bc50d6bd34926c1cc3ae4a209d67d649
RStudio 1.1.463 - Ubuntu 16.04+/Debian 9+ (64-bit)	65 MB	2018-10-29	cfd659db18619cc78d1592fefaa7c753
RStudio 1.1.463 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	88.1 MB	2018-10-29	742f0bad60dfeaa3281576e14ad6699e
RStudio 1.1.463 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	90.6 MB	2018-10-29	c7303067a0ca99deea7e427b856952d1

Rstudio overview



Rstudio - coding

- Make a folder in your desktop "R-course" without quotes.
- In Rstudio go to File → New File → R script. It will open an editor.
- Save the file as "session-1.R" in previously created folder.
- In Rstudio go to Session → Set Working Directory → To Source
 File Location. This will set R-course directory as a working
 directory for Rstudio.
- You can check current working directory in R console (in Rstudio) by executing "getwd()" without quotes.

Rstudio – executing a piece of code

 To execute a line of code in Rstudio, put the cursor in a desired line and press Ctrl+Enter.

To execute multiple lines, select all the lines and press

Ctrl+Enter.

 You can do the same thing by clicking "Run" icon which is on the left of the editor window. getwd()|

2.8 (Top Level) \$\displays \text{ Top Level} \tag{ \displays \text{ Top Level}} \tag{ \displays \text{ R Script } \$\displays \text{ R Script } \$\displa

 An output of a executed syntax/code can be seen in Console window.

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Session 1 code

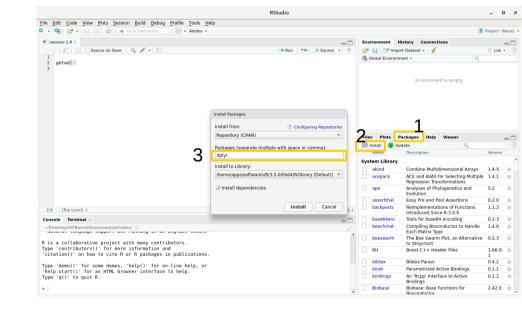
- Now, you can copy and paste session-1 course material and practice.
- NOTE: You do have to install any packages to run codes from session-1 course material.

Rstudio - installing packages

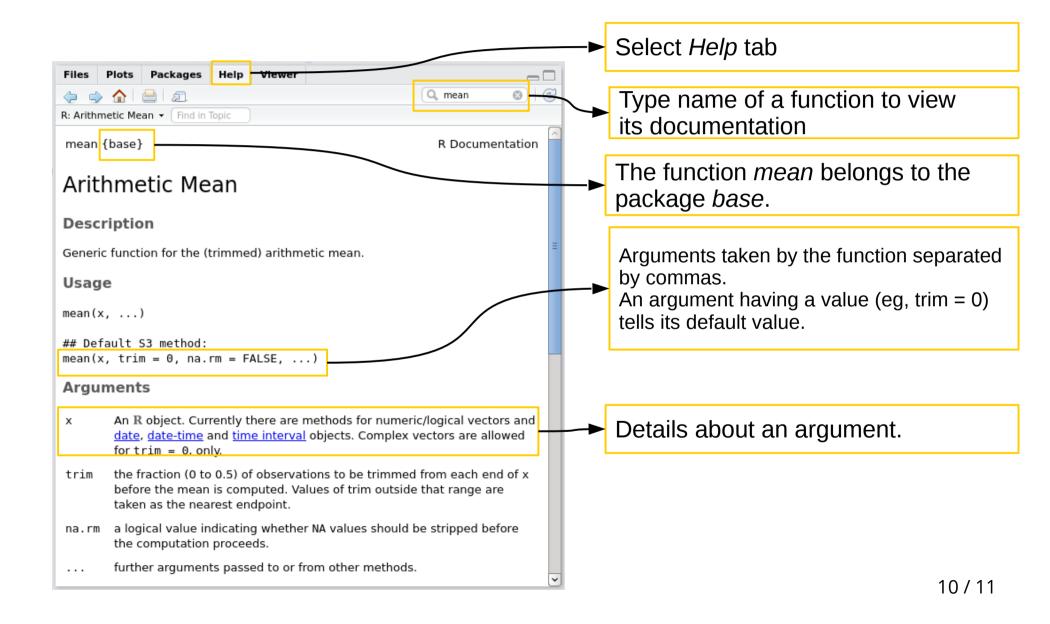
- There are two ways to install packages.
 - Via console
 - Via graphical user interface
- In console install.packages() function installs a give package or packages. For example
 - install.packages("ggplot2"
 - Install.packages(c("dplyr", "plotly"))

Rstudio - installing packages

- Package installation can also be done using Rstudio's interface.
- Click Packages tab and then Install. Provide package names in the dialogue box.



Rstudio - Getting help



Rstudio - Getting help

